

COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010419

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AS BELOW NAMED INVENTOR, I HEREBY DECLARE THAT: This Declaration is of the following type:

- ☒ Original
 ☐ Supplemental
 ☐ Continuation-In-Part
 ☐ Divisional
 ☐ Continuation
 ☐ National Stage of PCT

My residence, post office address and citizenship are as stated below next to my name: I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention **DIGITAL VOLTAGE GAIN AMPLIFIER FOR ZERO IF ARCHITECTURE** the specification of which:

- ☐ is attached hereto.
☒ was filed on **September 14, 2001** as Serial No. **09/954,589**
☐ was amended on (if applicable).
☐ was described and claimed in PCT International Application No. filed on and as amended under PCT Article 19 on

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Sec. 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 of any foreign application(s) for patent or inventor's certificate or of any PCT International application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT International application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

				Priority Claimed
(Country)	(Application No.)	(Day/Month/Year/Filed)	(Yes)	(No)

I hereby claim the benefit under Title 35 USC 119(e) of any United States provisional application(s) listed below:

<u>60/305,968</u>	<u>July 16, 2001</u>
(Serial No.)	(Filing Date)

I hereby claim the benefit under Title 35 USC 120 of the United States application(s) listed below, and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 USC 112, I acknowledge the duty to disclose material information as defined in Title 37 CFR 1.56(a) which occurred between the filing date of the prior application and the national or PCT International filing date of this application:

(Serial No.)	(Filing Date)	(Status)
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I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith: Russell B. Miller, Reg. No. 31,122, Gregory D. Ogrod, Reg. No. 30,880, Bruce W. Greenhaus, Reg. No. 37,339, Charles D. Brown, Reg. No. 28,285, Thomas R. Rouse, Reg. No. 40,793, Kent D. Baker, Reg. No. 38,822, Thomas M. Thibault, Reg. No. 42,181, Christopher O. Edwards, Reg. No. 36,127, Pavel Kalousek, Reg. No. 44,178, Kyong H. Macek, Reg. No. 42,977, Byron Yafuso, Reg. No. 45,244, Kevin J. Clark, Reg. No. 42,421, Sean English, Reg. No. 37,319, Roger W. Martin, Reg. No. 39,291, Sandip S. Minhas, Reg. No. 44,945, Michael D. Hartogs, Reg. No. 36,547, Philip R. Wadsworth, Reg. No. 29,219 and S. Hossain Beladi, Reg. No. 42,311, Albert J. Harnois, Reg. No. 46,123, Sandra L. Godsey, Reg. No. 42,589, George C. Pappas, Reg. No. 35,065, Howard H. Seo., Reg. No. 43,106. Please direct all telephone calls to Philip R. Wadsworth at (858) 651-4404 and address all correspondence to: Sarah Kirkpatrick, Manager, Intellectual Property Administration, QUALCOMM Incorporated, 5775 Morehouse Drive, San Diego, California 92121-1714.

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ATTORNEY DOCKET NO.: 010419

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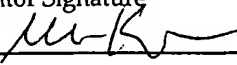
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor Raghu Challa	Inventor Signature <i>Raghu Challa</i>	Date 8/1/02
Residence 11928 Tivoli Park Row, #2, San Diego, California 92128	Citizenship India	
Post Office Address 11928 Tivoli Park Row, #2, San Diego, California 92128		

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Full Name of Inventor Nitin Kasturi	Inventor Signature 	Date 04/17/2002
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ATTORNEY DOCKET NO.: 010419

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Full Name of Inventor Nikolai Schlegel	Inventor Signature <i>Nikolai Schlegel</i>	Date 4/17/2002
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NOVEMBER 07, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
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QUALCOMM INCORPORATED
GEORGE C. PAPPAS
5775 MOREHOUSE DRIVE
PATENT DEPARTMENT
SAN DIEGO, CA 92121-1714



102205856A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

010419

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE: THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/27/2002

REEL/FRAME: 013229/0456

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CHALLA, RAGHU

DOC DATE: 05/01/2002

ASSIGNOR:

KASTURI, NITIN

DOC DATE: 04/17/2002

ASSIGNOR:

SCHLEGEL, NIKOLAI

DOC DATE: 04/17/2002

ASSIGNEE:

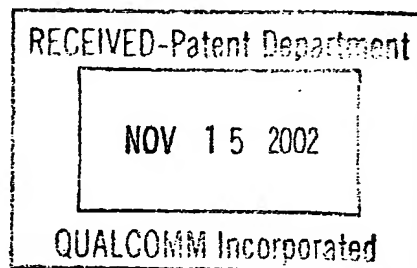
QUALCOMM INCORPORATED
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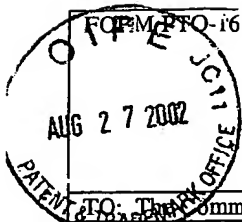
SERIAL NUMBER: 09954589

PATENT NUMBER:

FILING DATE: 09/14/2001

ISSUE DATE:





PTO FORM 1619A/B

08-30-2002

U.S. Department of Commerce
Patent and Trademark Office
PATENT

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102205856

Attorney Docket No.: 010419

U.S. Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies):

Submission Type

- ☒ New
☐ Resubmission (Non-Recordation)
Document ID No. **8-27-02**
☐ Correction of PTO Error
Reel No. Frame No.
☐ Corrective Document
Reel No. Frame No.

Conveyance Type

- ☒ Assignment
☐ Change of Name
☐ License
☐ Merger
☐ Security Agreement
☐ Other: _____

Conveying Party(ies) ☐ Mark if additional names are attached

NAME

Raghu Challa
Nitin Kasturi
Nikolai Schlegel

EXECUTION DATE

Month, Day, Year (MMDDYYYY)

05/01/2002

04/17/2002

04/17/2002

Receiving Party(ies) ☐ Mark if additional names are attached

Name: QUALCOMM Incorporated
A Delaware Corporation
Address: 5775 Morehouse Drive
Address: San Diego, California, 92121-1714

Correspondence Name and Address

Name: QUALCOMM Incorporated (PTO Customer No. 23696)
Attn: Patent Department
Address: 5775 Morehouse Drive
Address: San Diego, California 92121-1714

Telephone Number: (858) 651-1179
Facsimile: (858) 658-2502

Pages (Enter the total number of pages of the attached conveyance document including any attachments)

Total number of pages: one

Application Number(s) or Patent Number(s)

If this document is being filed together with a new application, the execution date of the application is:

Patent Application Number(s):

09/954,589

Patent Number(s):

Number of Properties (Enter the total number of properties involved)

Total number of properties: one

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$40

Method of Payment: ☐ Enclosed ☒ Deposit Account (A duplicate of this sheet is enclosed for fee processing)

Deposit Account Number: 17-0026

Authorization to charge additional fees: ☒ Yes ☐ No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Date: 8/20/02

Name: George C. Pappas, Reg. No. 35,065
858-651-1306

Signature:

FOR OFFICE USE ONLY

08/29/2002 LHUELLER 00000289 170026 09954589

01 FC:581

40.00 CH

(TRANSASSIGN.VER1.6-2/12/2001)

ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that I,

1. **Raghu Challa**, a citizen of India, having a place of residence at 11928 Tivoli Park Row, #2, San Diego, California 92128;
2. **Nitin Kasturi**, a citizen of the United States, having a place of residence at 859 University Ave., #16, Los Gatos, Ca 95032; and
3. **Nikolai Schlegel**, a citizen of Germany, having a place of residence at 11995 Wunington Rd. San Diego, CA 92128.

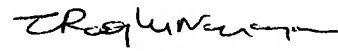
have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto **QUALCOMM Incorporated**, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to a **DIGITAL VOLTAGE GAIN AMPLIFIER FOR ZERO IF ARCHITECTURE** by me co-devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **September 14, 2001**, and assigned Serial No. **09/954,589**, and all original and reissue patents granted thereof, and all divisions, and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that I have full right to do so, and agree that I will communicate to said corporation or its representatives all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to

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obtain and enforce proper patent protection for said invention in all countries.

The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

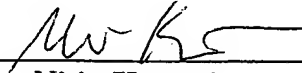
Done at San Diego, California this 1 day of May, 2002.



Raghu Challa

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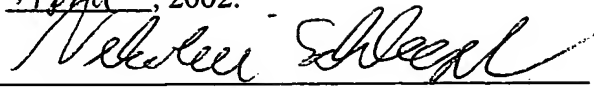
Done at San Diego, California this 17th day of April, 2002.



Nitin Kasturi

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Done at San Diego, California this 17 day of April, 2002.

A handwritten signature in dark ink, appearing to read 'Nikolai Schlegel', written over a horizontal line.

Nikolai Schlegel